

**BOBBY JINDAL**  
GOVERNOR



**HAROLD LEGGETT, PH.D.**  
SECRETARY

**State of Louisiana**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**ENVIRONMENTAL SERVICES**

Certified Mail No.

Activity No.: PER20090001  
Agency Interest No. 4198

Mr. Ted Meinholt  
Area Manager  
Southern Natural Gas Company  
42621 Highway 16  
Franklin LA 70438

RE: Part 70 Operating Permit Renewal and Modification, Shadyside Compressor Station  
Southern Natural Gas Company, Centerville, Saint Mary Parish, Louisiana

Dear Mr. Meinholt:

This is to inform you that the permit renewal and minor modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the \_\_\_\_\_ of \_\_\_\_\_, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this \_\_\_\_\_ day of \_\_\_\_\_, 2010.

Permit No.: 2660-00035-V2

Sincerely,

Cheryl Sonnier Nolan  
Assistant Secretary  
CSN:alr  
c: EPA Region VI

**PUBLIC NOTICE**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)**  
**SOUTHERN NATURAL GAS CO, SHADYSIDE COMPRESSOR STATION**  
**PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL AND MINOR MODIFICATION**

The LDEQ, Office of Environmental Services, is accepting written comments on a Part 70 Air Operating Renewal and Minor Modification for Southern Natural Gas Co., 42621 Highway 16, Franklinton, LA 70438 for the Shadyside Compressor Station. **The facility is located off Highways 182 and 90, 3 miles southeast of Centerville, Saint Mary Parish.**

Southern Natural Gas Company requested a renewal and modification of their current Part 70 Air Operating Permit, incorporating minor updates and corrections to the existing permit. The Shadyside Compressor Station is a natural gas pipeline compressor station and provides recompression capabilities. There are no physical modifications proposed to the existing significant emission sources. The emission changes are due to small revisions to the emission rates as a result of minor updates to emission factors and emission source stack parameters.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	13.47	15.60	+2.13
SO <sub>2</sub>	0.19	0.22	+0.03
NO <sub>X</sub>	1436.57	1436.57	-
CO	355.05	355.05	-
VOC	44.23	49.64	+5.41

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Wednesday, April 7, 2010.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The proposed permit, permit application and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5<sup>th</sup> Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30

p.m., Monday through Friday (except holidays). The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at [www.deq.louisiana.gov](http://www.deq.louisiana.gov).

An additional copy may be reviewed at the St. Mary Parish Library, Alex P Allain Memorial, 206 Iberia Street. Frankin, LA 70538.

Inquiries or requests for additional information regarding this permit action should be directed to Anthony Randall, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313. phone (225) 219-3130.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313. by email at [deqmailistrequest@la.gov](mailto:deqmailistrequest@la.gov) or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

**Permit public notices including electronic access to the proposed permit and statement of basis** can be viewed at the LDEQ permits public notice webpage at [www.deq.louisiana.gov/apps/pubNotice/default.asp](http://www.deq.louisiana.gov/apps/pubNotice/default.asp) and general information related to the public participation in permitting activities can be viewed at [www.deq.louisiana.gov/portal/tabid/2198/Default.aspx](http://www.deq.louisiana.gov/portal/tabid/2198/Default.aspx).

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at [http://www.doa.louisiana.gov/oes/listservpage/ldeq\\_pn\\_listserv.htm](http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm).

**All correspondence should specify AI Number 4198, Permit Number 2660-00035-V2, and Activity Number PER20090001.**

Scheduled Publication Date: March 3, 2010

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shadyside Compressor Station  
Agency Interest No.: 4198  
Southern Natural Gas Company  
Centerville, Saint Mary Parish, Louisiana**

**I. Background**

Shadyside Compressor Station, an existing natural gas transmission facility, began operation in December 1972. The Shadyside Compressor Station operated under Permit Nos. 1088, issued December 28, 1978, PSD-LA-127, issued July 19, 1979, Permit No. 1380, issued May 28, 1980 and Permit No. 2660-00035-V0 issued April 14, 2005. Currently the facility operates under Permit 2660-00035-V1 dated July 30, 2008.

This is the Part 70 operating permit for the facility.

**II. Origin**

A permit application and Emission Inventory Questionnaire were submitted by Southern Natural Gas Company on September 29, 2009 requesting a Part 70 operating permit renewal and minor modification.

**III. Description**

Shadyside Compressor Station is a natural gas pipeline compressor station and provides recompression capabilities. The station utilizes five (5) natural gas-fired reciprocating internal combustion compressor engines to transport natural gas along the Southern Natural Gas (SNG) pipeline system. Natural gas enters the Shadyside pipeline at an average suction pressure of 750 psig. Prior to entering the compressor suction, natural gas flows through a mechanical separator that removes quantities of liquids or incoming sediment. The separator is a closed system and does not vent to the atmosphere. The separated liquid (condensate) accumulates in the bottom of the separator until it reaches a set level, at which time the condensate is routed to a storage tank. The condensate is subsequently shipped offsite via tank trucks for disposal. The natural gas is routed to the compressor engines for compression to an average of 950 psig and transmitted via pipeline downstream.

SNG is not proposing any physical modifications to the existing significant emission sources located at Shadyside. Some small revisions to the emission rates are a result of minor updates to emission factors, and emission source stack parameters.

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shadyside Compressor Station**  
**Agency Interest No.: 4198**  
**Southern Natural Gas Company**  
**Centerville, Saint Mary Parish, Louisiana**

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM <sub>10</sub>	13.47	15.60	+2.13
SO <sub>2</sub>	0.19	0.22	+0.03
NO <sub>x</sub>	1436.57	1436.57	-
CO	355.05	355.05	-
VOC *	44.23	49.64	+5.41

**VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):**

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Benzene	0.172	0.172	-
Ethylbenzene	0.025	0.025	-
Ethylene Glycol	0.280	0.280	-
Formaldehyde	17.575	17.575	-
n-Hexane	0.124	0.124	-
Toluene	0.177	0.177	-
Xylene	0.101	0.101	-
Total	18.454	18.454	-

Other VOC (TPY):                            31.19

**IV. Type of Review**

This permit was reviewed for compliance with 40 CFR 70 and the Louisiana Air Quality Regulations. Prevention of Significant Deterioration (PSD), New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP) do not apply.

Formaldehyde emissions are from natural gas fired engines. Therefore, these emissions are exempt from the Louisiana Air Toxic Regulations per LAC 33:III.5105.B.3. The facility is classified as a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. Formaldehyde emissions are above the Hazardous Air Pollutants (HAP) major source threshold of 10 tons per year. The station is considered a major source of HAP under the federal program.

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shadyside Compressor Station  
Agency Interest No.: 4198  
Southern Natural Gas Company  
Centerville, Saint Mary Parish, Louisiana**

**V. Credible Evidence**

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

**VI. Public Notice**

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 200X; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

**VII. Effects on Ambient Air**

Emissions associated with the proposed facility renewal were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
-	-	-	-
-	-	-	-

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shadyside Compressor Station**  
**Agency Interest No.: 4198**  
**Southern Natural Gas Company**  
**Centerville, Saint Mary Parish, Louisiana**

**VIII. General Condition XVII Activities**

Work Activity	Schedule	Emission Rates - tons				
		PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
Start Up Emissions	As Necessary	<0.01	< 0.01	0.02	<0.01	<0.01
Shutdown Venting	As Necessary	-	-	-	-	<0.01
Vessel/Pipeline Blowdowns	Weekly	-	-	-	-	0.63
Testing/Venting of ESD System	Annually	-	-	-	-	1.86
Pigging Events	Quarterly	-	-	-	-	<0.07
Other releases of natural gas	Intermittent	-	-	-	-	<5

**IX. Insignificant Activities**

ID No.:	Description	Citation
005T-001	Engine Oil Storage Tank	LAC 33:III.501.B.5.A.3.
005T-002	Engine Oil Storage Tank	LAC 33:III.501.B.5.A.3.
	Five (5) Space Heaters	LAC 33:III.501.B.5.A.5
	Two (2) Hot Water Heaters	LAC 33:III.501.B.5.A.5

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shady side Compressor Station**  
**Agency Interest No.: 4198**  
**Southern Natural Gas Company**  
**Centerville, Saint Mary Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	LAC 33:III.Chapter																
		5▲	9	11	13	15	2103	2104*	2107	2111	2113	2116*	2121	22	29*	51*	53*	56
UNF0001	Plant Wide	1	1	1								1				1	1	3
EQT0001	Compressor Engine No. 1	1	1	1	3											2		
EQT0002	Compressor Engine No. 2	1	1	1	3											2		
EQT0003	Compressor Engine No. 3	1	1	1	3											2		
EQT0004	Compressor Engine No. 4	1	1	1	3											2		
EQT0005	Compressor Engine No. 5	1	1	1	3											2		
EQT0006	Waukesha Model H24GL		1	1	3											2		
EQT0007	Condensate Storage Tank					3										2		
EQT0008	Condensate Storage Tank					3										2		
EQT0009	Truck Loading						3											
EQT0010	Gasoline Storage Tank							1										
FUG0001	Facility Fugitives								1	1	1	3		1				

\* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shadyside Compressor Station**  
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**Centerville, Saint Mary Parish, Louisiana**

**X. Table 1. Applicable Louisiana and Federal Air Quality Requirements**

ID No.:	Description	40 CFR 60										40 CFR 61										40 CFR											
		K	Ka	Kb	Db	Dc	GG	JJJ	KKK	A	M	V	A	HH	SS	HHH	ZZZZ	52	64	68													
UNF0001	Plant Wide									3	1		3	1																			
EQT0001	Compressor Engine No. 1									3																							
EQT0002	Compressor Engine No. 2									3																							
EQT0003	Compressor Engine No. 3									3																							
EQT0004	Compressor Engine No. 4									3																							
EQT0005	Compressor Engine No. 5									3																							
EQT0006	Waukesha Model H24GL									3																							
EQT0007	Condensate Storage Tank									3																							
EQT0008	Condensate Storage Tank									3																							
EQT0009	Truck Loading									3																							
EQT0010	Gasoline Storage Tank									3																							
FUG0001	Facility Fugitives																																

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shadyside Compressor Station**  
**Agency Interest No.: 4198**  
**Southern Natural Gas Company**  
**Centerville, Saint Mary Parish, Louisiana**

**KEY TO MATRIX**

- 1 -The regulations have applicable requirements that apply to this particular emission source.  
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
  - 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
  - 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.
- Blank** – The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shadyside Compressor Station**  
**Agency Interest No.: 4198**  
**Southern Natural Gas Company**  
**Centerville, Saint Mary Parish, Louisiana**

**XII. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
UNF0001 – Entire Facility	Chemical Accident Prevention and Minimization of Consequences 40 CFR 68 and LAC 33:III.Chapter 59	DOES NOT APPLY – Facility contains no sources which produce, handle, process or store substances listed in 40 CFR 68.130 in quantities greater than the threshold limits.
NSPS: Equipment Leaks of VOC from Onshore Natural Gas Processing Plants – 40 CFR 60 Subpart KKK	NESHAP: Oil and Natural Gas Production Facilities 40 CFR 63 Subpart HH	DOES NOT APPLY – Facility is not a Natural Gas processing plant. DOES NOT APPLY – Facility is not a natural gas production facility
EQT 1 - 6 Compressor Engines	NESHAP: Natural Gas Transmission and Storage 40 CFR 63 Subpart HHH	EXEMPT – The facility does not operate an affected source and therefore is not subject to any applicable control requirements.
	NSPS: Standards of Performance for Stationary Internal Combustion Engines 40 CFR 60 Subpart JJJ	DOES NOT APPLY – These engines have not been constructed, reconstructed or modified after June 12, 2006.
	NESHAP: Stationary Reciprocating Internal Combustion Engines 40 CFR 63 Subpart ZZZZ	DOES NOT APPLY – Existing spark-ignited 2-stroke and 4-stroke lean burn engines constructed prior to December 19, 2002 are not required to comply with the requirements of this subpart under the provision of 63.6590(c)
	Emissions Standards for Sulfur Dioxide LAC 33:III Chapter 15	DOES NOT APPLY – The provisions of this regulation do not apply to single point sources that have the potential to emit less than 5 tpy SO <sub>2</sub> .

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Shadyside Compressor Station**  
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**XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source**

ID No:	Requirement	Notes
EQT 1 - 6 Compressor Engines	Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III Chapter 51	EXEMPT – Emissions from the combustion of Group I virgin fossil fuels are exempt from the requirements of this regulation.
EQT 7 - 8 Tanks	Control of Emissions of Organic Compounds – Storage of Volatile Organic Compounds - LAC 33:III.2103	DOES NOT APPLY – Tanks have a nominal storage capacity less than 420,000 gallons.
EQT 7, 8, & 10 Tanks	NSPS Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984. - 40 CFR 60 Subpart Kb	EXEMPT. Tank volume is less than 75 cubic meters.
EQT 9 Truck Loading	Volatile Organic Compounds – Loading [LAC 33:III.2107]	DOES NOT APPLY – Loading facilities for VOCs having a true vapor pressure at loading conditions less than 1.5 psia are not subject to the control and monitoring requirements of LAC 33:III.2107.F
FUG 1 Fugitives	Fugitive Emission Control LAC 33:III.2121	DOES NOT APPLY – Regulation applies to petroleum refineries, natural gas processing plants, SOCML industry, MTBE manufacturing plants, and polymer manufacturing plants. Shadyside Compressor Station does not qualify as any of the affected facility types.

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

**General Information**

**AI ID: 4198 Southern Natural Gas Co - Shadyside Compressor Station**  
**Activity Number: PER2009001**  
**Permit Number: 2660-00035-V2**  
**Air - Title V Regular Permit Renewal**

Also Known As:	Name	User Group	Start Date
	Southern Natural Gas Co - Shadyside Compressor Station	CDS Number	04-22-1980
2660-00035	Federal Tax ID	Federal Tax ID	11-21-1999
63-0198650	Southern Natural Gas Co - Shadyside Compressor Station	Hazardous Waste Notification	04-16-1993
LADD980332985	LPDES #	LPDES Permit #	02-21-2006
LA0119091	LPDES #	LPDES Permit #	07-21-2003
LAU009385	LWDPS #	LWDPS Permit #	05-22-2003
WP5021	Site ID #	Solid Waste Facility No.	10-24-2001
G-101-6380			
 Physical Location:		Main Phone:	9858392393
	off Hwy 182, 3 Mi SE of Centerville, LA 70522		
 Mailing Address:			
	42621 Hwy 16 Franklinton, LA 70438		
 Location of Front Gate:	29.725 latitude, -91.416944 longitude, Coordinate Method: Lat.Ulong. - DMS, Coordinate Datum: NAD83		
 Related People:	Name	Phone (Type)	Relationship
	Joe Araiza	7132049770 (CP)	Emission Inventory Contact for
	Joe Araiza	Joe.Araiza@EIPaso.	Emission Inventory Contact for
	Joe Araiza	7134205452 (WP)	Emission Inventory Contact for
	Richard Calligan		Water Permit Contact For
	Rae Donaldson	9852236421 (WP)	Water Billing Party for
	Rae Donaldson	9852236421 (WP)	Haz. Waste Billing Party for
	Ted Meinhold	ted.meinhold@eipas	Responsible Official for
	Greg Newman	Greg.Newman@EIP:	Emission Inventory Contact for
	Greg Newman	7134204195 (WP)	Emission Inventory Contact for
 Related Organizations:	Name	Phone (Type)	Relationship
	Southern Natural Gas Co	1001 Louisiana St E-1150A Houston, TX 77002	Operates
	Southern Natural Gas Co	1001 Louisiana St E-1150A Houston, TX 77002	Emission Inventory Billing Party
	Southern Natural Gas Co	1001 Louisiana St E-1150A Houston, TX 77002	Air Billing Party for
	Southern Natural Gas Co	1001 Louisiana St E-1150A Houston, TX 77002	Owns
 NAIC Codes:			
	48621. Pipeline Transportation of Natural Gas		

**General Information**

**AID: 4198 Southern Natural Gas Co - Shadyside Compressor Station**

Activity Number: PER20090001

Permit Number: 2660-00035-V2

Air - Title V Regular Permit Renewal

**Note:** This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

**INVENTORIES**

AI ID: 4198 - Southern Natural Gas Co - Shadyside Compressor Station  
 Activity Number: PER20090001  
 Permit Number: 2660-00035-V2  
 Air - Title V Regular Permit Renewal

**Subject Item Inventory:**

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
<b>Entire Facility</b>						
EQT 0001	001C-001 - Compressor Engine No. 1 Cooper Bessemer GMVC-10		1800 horsepower			8760 hr/yr
EQT 0002	001C-002 - Compressor Engine No. 2 Cooper Bessemer GMVC-10		1800 horsepower			8760 hr/yr
EQT 0003	001C-003 - Compressor Engine No. 3 Cooper Bessemer GMVC-10		1800 horsepower			8760 hr/yr
EQT 0004	001C-004 - Compressor Engine No. 4 Cooper Bessemer GMVH-8		1800 horsepower			8760 hr/yr
EQT 0005	001C-005 - Compressor Engine No. 5 Cooper Bessemer GMVH-8		1800 horsepower			8760 hr/yr
EQT 0006	005G-001 - Waukesha Model H24GL		464 horsepower			500 hr/yr
EQT 0007	001T-001 - Condensate Storage Tank	8820 gallons		132000 gallons/yr		8760 hr/yr
EQT 0008	001T-002 - Condensate Storage Tank	8820 gallons		132000 gallons/yr		8760 hr/yr
EQT 0009	001FM-002 - Truck Loading			252000 gallons/yr		31 hr/yr
EQT 0010	001T-003 - Gasoline Storage Tank	500 gallons		20000 gallons/yr		8760 hr/yr
FUG 0001	001FM-001 - Facility Fugitives					8760 hr/yr

**Stack Information:**

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
<b>Entire Facility</b>							
EQT 0001	001C-001 - Compressor Engine No. 1 Cooper Bessemer GMVC-10	130	16221	1.67		35	660
EQT 0002	001C-002 - Compressor Engine No. 2 Cooper Bessemer GMVC-10	130	16221	1.67		35	660
EQT 0003	001C-003 - Compressor Engine No. 3 Cooper Bessemer GMVC-10	130	16221	1.67		35	660
EQT 0004	001C-004 - Compressor Engine No. 4 Cooper Bessemer GMVH-8	99	13016	1.67		45	660
EQT 0005	001C-005 - Compressor Engine No. 5 Cooper Bessemer GMVH-8	63.5	8315	1.67		45	585
EQT 0006	005G-001 - Waukesha Model H24GL	144	2950	.67		15.5	857
EQT 0007	001T-001 - Condensate Storage Tank	.01	.01	3		15	77
EQT 0009	001FM-002 - Truck Loading					10	77
EQT 0010	001T-003 - Gasoline Storage Tank						
FUG 0001	001FM-001 - Facility Fugitives						

**Relationships:**

Subject Item Groups:	Group Type	Group Description
ID	Common Requirements Group	CRG001 - Compressor Engines

**INVENTORIES****AI ID: 4198 - Southern Natural Gas Co - Shadyside Compressor Station****Activity Number: PER2009001****Permit Number: 2660-00035-V2****Air - Title V Regular Permit Renewal****Subject Item Groups:**

ID	Group Type	Group Description
UNF 0001	Unit or Facility Wide	UNF0001 - Entire Facility

**Group Membership:**

ID	Description	Member of Groups
EOT 0001	001C-001 - Compressor Engine No. 1 Cooper Bessemer GMV/C-10	CRG0000000001
EOT 0002	001C-002 - Compressor Engine No. 2 Cooper Bessemer GMV/C-10	CRG0000000001
EOT 0003	001C-003 - Compressor Engine No. 3 Cooper Bessemer GMV/C-10	CRG0000000001
EOT 0004	001C-004 - Compressor Engine No. 4 Cooper Bessemer GMV/H-8	CRG0000000001
EOT 0005	001C-005 - Compressor Engine No. 5 Cooper Bessemer GMV/H-8	CRG0000000001

**NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group**

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1460	1460 Recip Nat Gas Comp (5,000 to 20,000 H.P.)	94.64	100 hp

**SIC Codes:**4922  Natural gas transmission

AI 4198

**EMISSION RATES FOR CRITERIA POLLUTANTS**

AI ID: 4198 - Southern Natural Gas Co - Shadyside Compressor Station  
 Activity Number: PER20090001  
 Permit Number: 2660-00035-V2  
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
<b>Entire Facility</b>															
EQT 0001 001C-001	<b>16.19</b>	<b>16.19</b>	<b>70.92</b>	<b>73.81</b>	<b>73.81</b>	<b>323.29</b>	<b>0.76</b>	<b>0.76</b>	<b>3.32</b>	<b>0.01</b>	<b>0.01</b>	<b>0.04</b>	<b>1.88</b>	<b>1.88</b>	<b>8.25</b>
EQT 0002 001C-002	<b>16.19</b>	<b>16.19</b>	<b>70.92</b>	<b>73.81</b>	<b>73.91</b>	<b>323.29</b>	<b>0.76</b>	<b>0.76</b>	<b>3.32</b>	<b>0.01</b>	<b>0.01</b>	<b>0.04</b>	<b>1.88</b>	<b>1.88</b>	<b>8.26</b>
EQT 0003 001C-003	<b>16.19</b>	<b>16.19</b>	<b>70.92</b>	<b>73.81</b>	<b>73.81</b>	<b>323.29</b>	<b>0.76</b>	<b>0.76</b>	<b>3.32</b>	<b>0.01</b>	<b>0.01</b>	<b>0.04</b>	<b>1.88</b>	<b>1.88</b>	<b>8.26</b>
EQT 0004 001C-004	<b>16.19</b>	<b>16.19</b>	<b>70.92</b>	<b>53.20</b>	<b>53.20</b>	<b>233.02</b>	<b>0.64</b>	<b>0.64</b>	<b>2.81</b>	<b>0.01</b>	<b>0.01</b>	<b>0.03</b>	<b>1.60</b>	<b>1.60</b>	<b>6.99</b>
EQT 0005 001C-005	<b>16.19</b>	<b>16.19</b>	<b>70.92</b>	<b>53.20</b>	<b>53.20</b>	<b>233.02</b>	<b>0.64</b>	<b>0.64</b>	<b>2.81</b>	<b>0.01</b>	<b>0.01</b>	<b>0.03</b>	<b>1.60</b>	<b>1.60</b>	<b>6.99</b>
EQT 0006 005G-001	<b>1.79</b>	<b>1.79</b>	<b>0.45</b>	<b>2.66</b>	<b>2.66</b>	<b>0.66</b>	<b>0.08</b>	<b>0.08</b>	<b>0.16</b>	<b>0.16</b>	<b>0.04</b>	<b>0.77</b>	<b>0.77</b>	<b>0.19</b>	
EQT 0007 001T-001													<b>0.35</b>	<b>0.35</b>	<b>1.52</b>
EQT 0008 001T-002													<b>0.35</b>	<b>0.35</b>	<b>1.52</b>
EQT 0009 001FM-002													<b>124.64</b>	<b>143.86</b>	<b>1.96</b>
EQT 0010 001T-003													<b>0.05</b>	<b>0.05</b>	<b>0.22</b>
FUG 001 001FM-001													<b>1.26</b>	<b>1.26</b>	<b>5.50</b>

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

**EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**

AI ID: 4198 - Southern Natural Gas Co - Shadyside Compressor Station

Activity Number: PER20090001

Permit Number: 2660-00035-V2

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 001C-001	Formaldehyde	0.801	0.801	3.511
EQT 0002 001C-002	Formaldehyde	0.801	0.801	3.511
EQT 0003 001C-003	Formaldehyde	0.801	0.801	3.511
EQT 0004 001C-004	Formaldehyde	0.801	0.801	3.511
EOT 0005 001C-005	Formaldehyde	0.801	0.801	3.511
EQT 0006 005G-001	Formaldehyde	0.080	0.080	0.020
EQT 0010 001T-003	Benzene	<0.01	<0.01	<0.01
	Toluene	<0.01	<0.01	<0.01
	Xylene (mixed isomers)	<0.01	<0.01	<0.01
	n-Hexane	<0.01	<0.01	<0.01
FUG 0001 001FM-001	Benzene	0.039	0.039	0.172
	Ethyl benzene	0.006	0.006	0.025
	Ethylene glycol	0.064	0.064	0.280
	Toluene	0.040	0.040	0.177
	Xylene (mixed isomers)	0.023	0.023	0.101
	n-Hexane	0.028	0.028	0.124
UNF 0001 UNF0001	Benzene			0.172
	Ethyl benzene			0.025
	Ethylene glycol			0.280
	Formaldehyde			17.575
	Toluene			0.177
	Xylene (mixed isomers)			0.101
	n-Hexane			0.124

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

**SPECIFIC REQUIREMENTS**

AI ID: 4198 - Southern Natural Gas Co - Shadyside Compressor Station  
 Activity Number: PER20090001  
 Permit Number: 2660-00035-V2  
 Air - Title V Regular Permit Renewal

**CRG 0001 CRG0001 - Compressor Engines**

Group Members: EQT 0001EQT 0002EQT 0003EQT 0004EQT 0005

- 1 [LAC 33:III.131.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).  
 Which Months: All Year Statistical Basis: Six-minute average
- 2 [LAC 33:III.507.H.1.a] Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
- 3 [LAC 33:III.507.H.1.a] Conduct a performance/emissions test: Due within 180 days after initial startup (or restart-up after modification), or within 60 days after achieving normal production rate or end of the shutdown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources and Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- 4 [LAC 33:III.507.H.1.a] Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBTu, gr/dscf, lbs SO<sub>2</sub> / ton 100% H<sub>2</sub>SO<sub>4</sub>, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H<sub>2</sub>SO<sub>4</sub> was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.
- 5 [LAC 33:III.507.H.1.a] Equipment/operational data recordkeeping by electronic or hard copy semiannually (six months after the stack test or previous semiannual test, plus or minus 30 days). Report contains a complete performance and condition analysis, adjustments made, and list for future repairs and/or maintenance work, including scheduled date.
- 6 [LAC 33:III.507.H.1.a] Demonstrate compliance with CO and NOX emission limits of this permit by performing semiannual preventive maintenance analysis and necessary adjustment to maintain compressor/engine performance and emissions in the same range as the initial stack test. Include in this analysis a complete compressor/engine unit performance testing for the natural gas fired internal combustion engine. Include in periodic engine analysis the following: 1) Setup, calibrate, and synchronize the performance analysis equipment per manufacturer's specification. Submit a procedural write up to LDEQ and keep on site. 2) Perform a power cylinder performance analysis with checks for combustion stability, peak pressure angle, detection of misfires, detonation, and pre-ignition. 3) Perform a primary and secondary ignition analysis including checking the ignition timing on each spark plug. 4) Perform a vibration analysis for the detection of mechanical problems such as worn leaking piston rings, piston/cylinder wear, fuel injection problems, etc. 5) Perform a compressor end analysis for detection of leaking valves or rings, or unnecessary recirculation of gas. 6) Check and record the IHP (indicated horsepower) on each end of each compressor cylinder. Determine the compressor load. Observe the PT (pressure vs. volume) pattern, and vibration traces on the analyzer oscilloscope. Take pictures of these traces for each cylinder. 7) Check and record the BMEP (brake mean effective pressure) on all power cylinders and check all hydraulic lifter adjustments. 8) Balance the load on all power cylinders by indicated horsepower. 9) Reread the IHP on each power cylinder and take pictures of the traces of each cylinder (e.g., PT, PV, and vibration).

**SPECIFIC REQUIREMENTS**

**All ID: 4198 - Southern Natural Gas Co - ShadySide Compressor Station**  
**Activity Number: PER20090001**  
**Permit Number: 2660-00035-V2**  
**Air - Title V Regular Permit Renewal**

**EQT 0006 005G-001 - Waukesha Model H24GL**

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).

Which Months: All Year Statistical Basis: Six-minute average

**EQT 0010 001T-003 - Gasoline Storage Tank**

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|---------------------------|---|
| 9 [LAC 33:III.2103.A]     | Equip with a submerged fill pipe.   |
| 10 [LAC 33:III.2103.II.3] | Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.   |
| 11 [LAC 33:III.2.03.1]    | Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. |

**FUG 0001 001FM-001 - Facility Fugitives**

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| 12 [LAC 33:III.2111] | Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. |
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**UNF 0001 UNF0001 - Entire Facility**

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| 13 [40 CFR 61.145(b)(1)] | Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)] |
| 14 [40 CFR 61.148]       | Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.   |
| 15 [40 CFR 61.]          | All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.  |
| 16 [40 CFR 82.Subpart F] | Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.   |
| 17 [LAC 33:III.1103]     | Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.1.11 or intensify an existing traffic hazard condition are prohibited.   |
| 18 [LAC 33:III.1109.B]   | Outdoor burning of waste material or other combustible material is prohibited.   |
| 19 [LAC 33:III.1303.B]   | Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.  |
| 20 [LAC 33:III.1305]     | Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1.7.  |

**SPECIFIC REQUIREMENTS**

**AI ID: 4198 - Southern Natural Gas Co - Shady-side Compressor Station**  
**Activity Number: PER20090001**  
**Permit Number: 2680-00035-V2**  
**Air - Title V Regular Permit Renewal**

**UNF 0001 UNF0001 - Entire Facility**

- 21 [LAC 33:III.131.I.B] Total suspended particulate <= 1b/hr. The rate of emission shall be the total of all emission points from the source.  
 Which Months: All Year Statistical Basis: None specified  
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
- 22 [LAC 33:III.131.I.C] Which Months: All Year Statistical Basis: Six-minute average  
 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 23 [LAC 33:III.2113.A] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 24 [LAC 33:III.219] Comply with the requirements of PSD-LA-127. This permit includes provisions of the Prevention of Significant Deterioration (PSD) review from Permit PSD-LA-127.
- 25 [LAC 33:III.509] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- 26 [LAC 33:III.5151.F.1.f] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537.  
 [LAC 33:III.535, LAC 33:III.537]  
 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.  
 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
- 27 [LAC 33:III.535] Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- 28 [LAC 33:III.561.I.A] Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:1.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.
- 29 [LAC 33:III.561.I.B]
- 30 [LAC 33:III.919.D]
- 31 [LAC 33:III.927]